



1/6

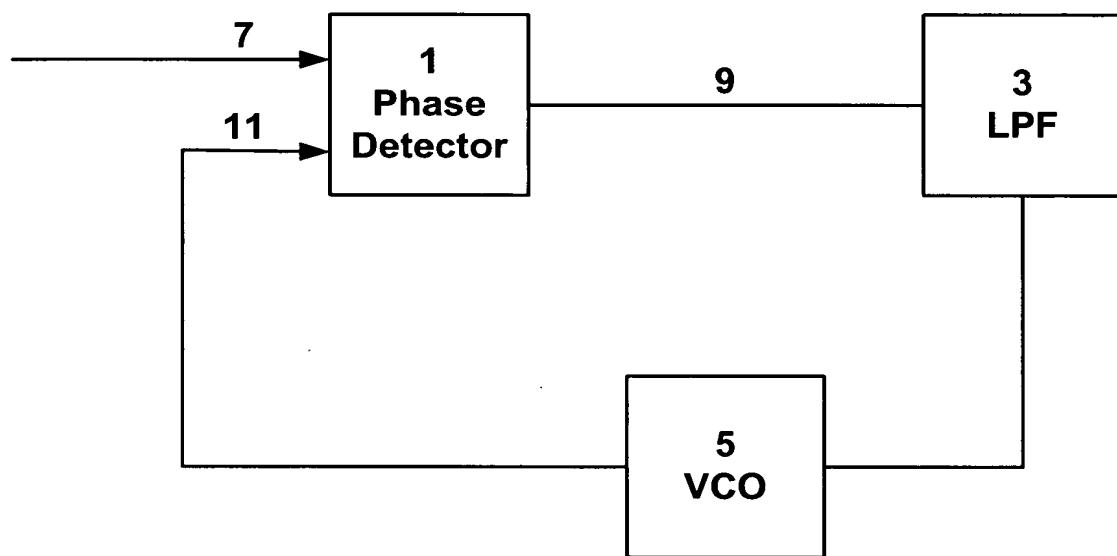


FIG. 1 (Prior Art)



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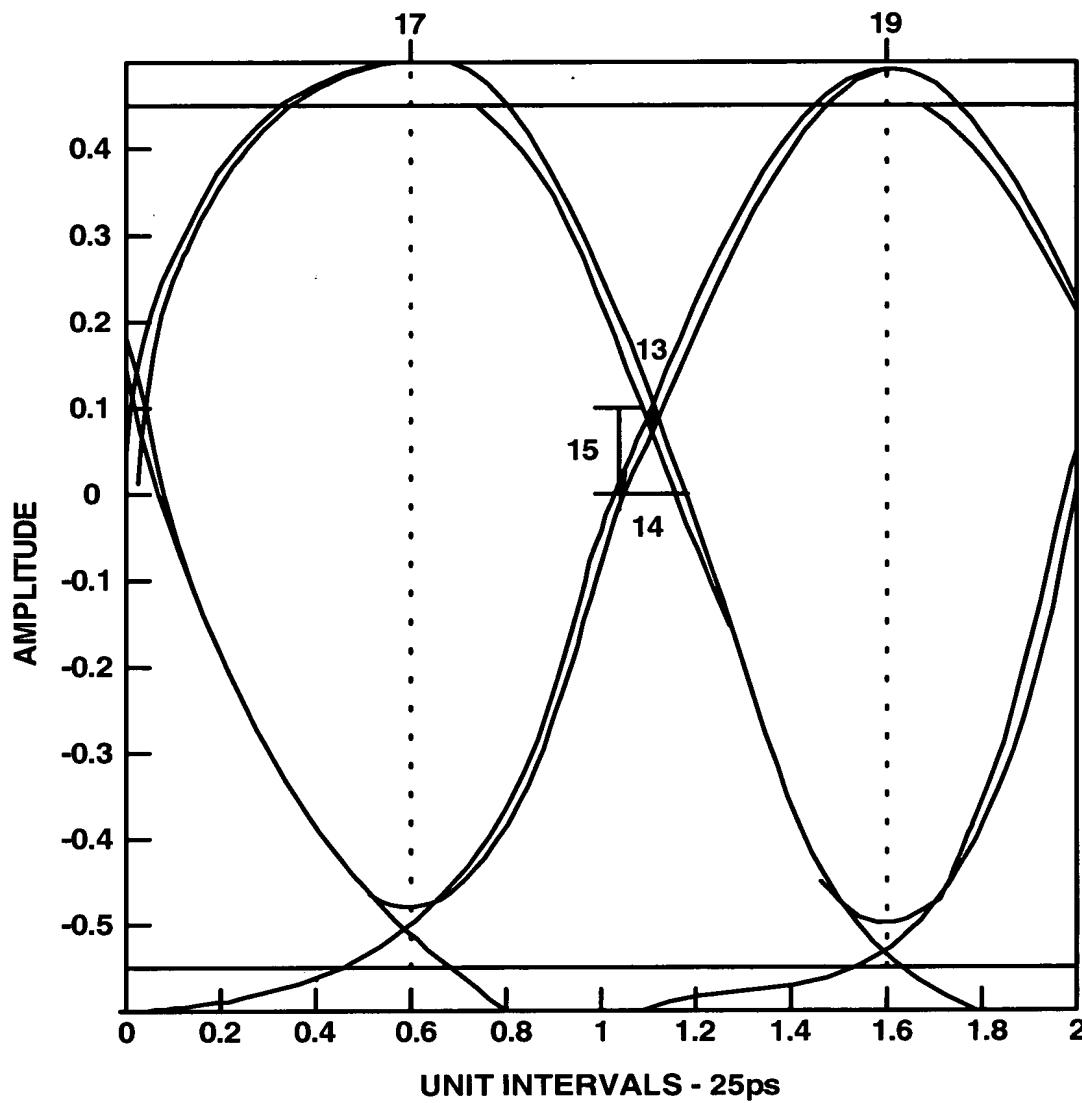


FIG. 2 (Prior Art)



TITLE: METHOD AND APPARATUS FOR ELIMINATING DEAD ZONE IN PHASE LOCKED LOOPS
USING BINARY QUANTIZED PHASE DETECTORS
INVENTOR(S): Sudeep Bhoja, John S. Wang and Christopher R. Cole
USSN: 09/954,453
Attorney Docket #: BBNT-T013

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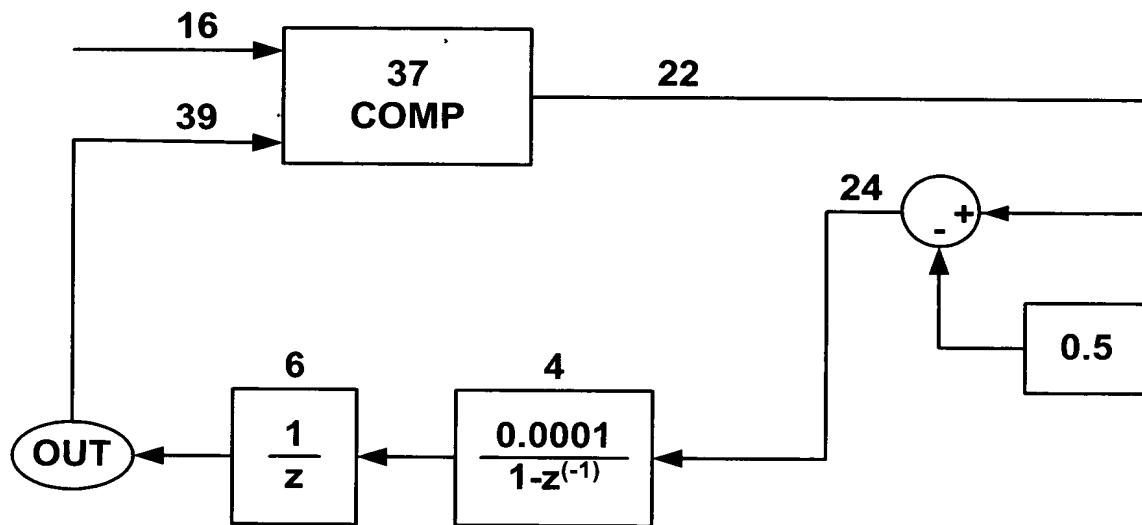
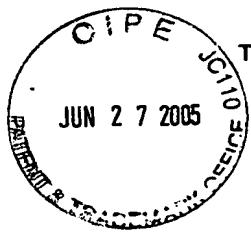


FIG. 3



**TITLE: METHOD AND APPARATUS FOR ELIMINATING DEAD ZONE IN PHASE LOCKED LOOPS
USING BINARY QUANTIZED PHASE DETECTORS**
INVENTOR(S): Sudeep Bhoja, John S. Wang and Christopher R. Cole
USSN: 09/954,453 **Attorney Docket #: BBN-T013**

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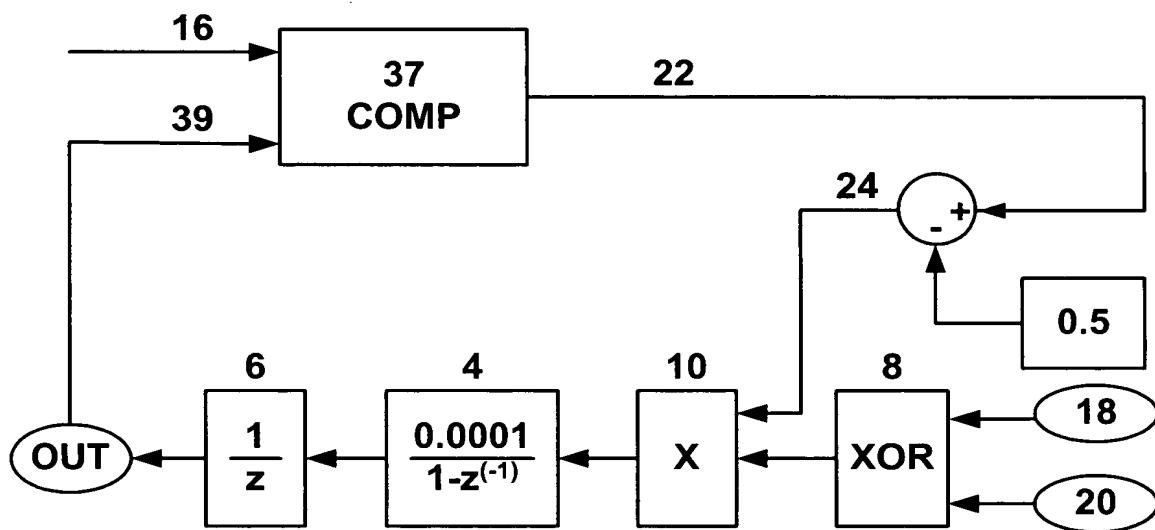


FIG. 4



**TITLE: METHOD AND APPARATUS FOR ELIMINATING DEAD ZONE IN PHASE LOCKED LOOPS
USING BINARY QUANTIZED PHASE DETECTORS**
INVENTOR(S): Sudeep Bhoja, John S. Wang and Christopher R. Cole
USSN: 09/954,453 **Attorney Docket #: BBN-T013**

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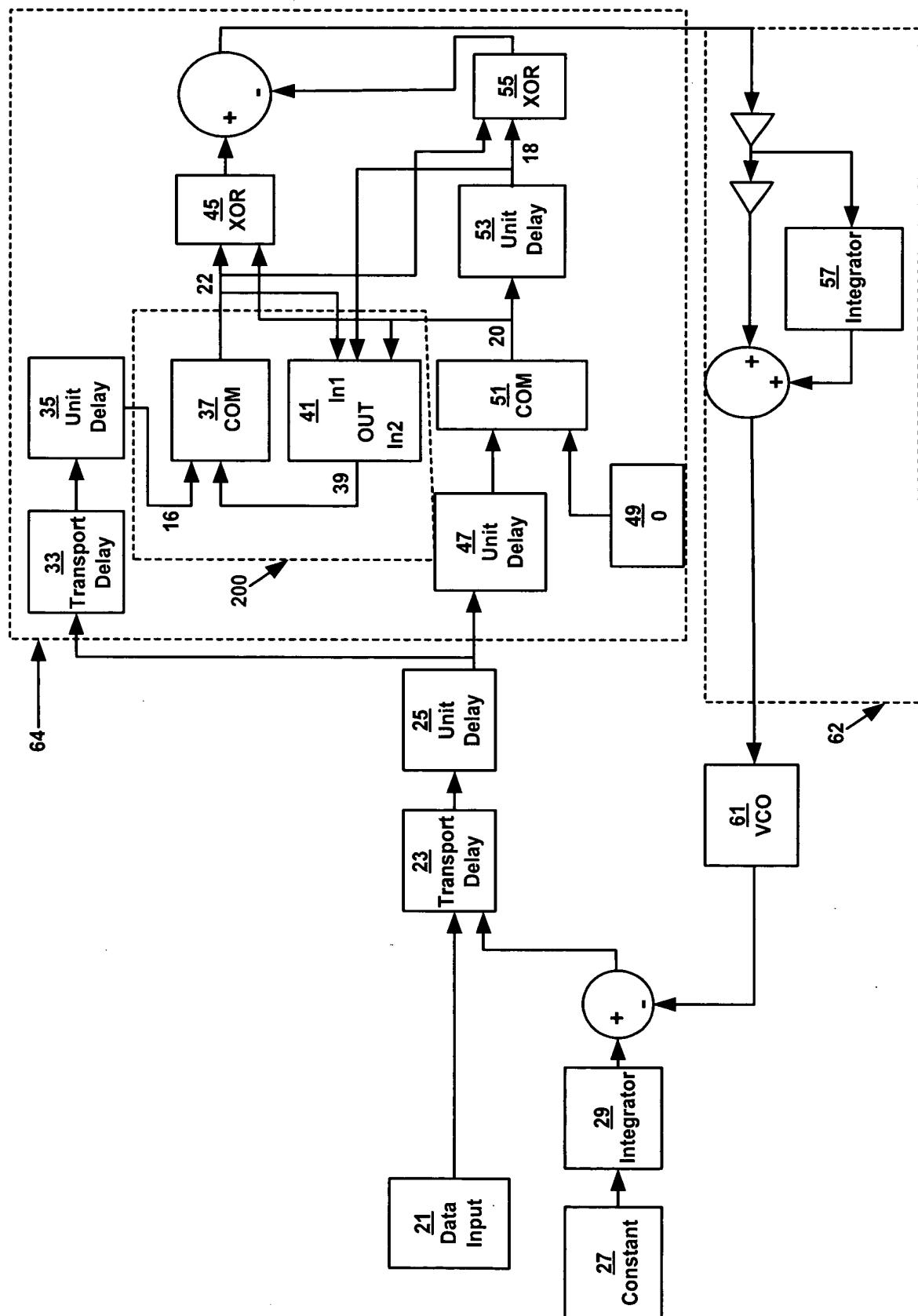


FIG 5



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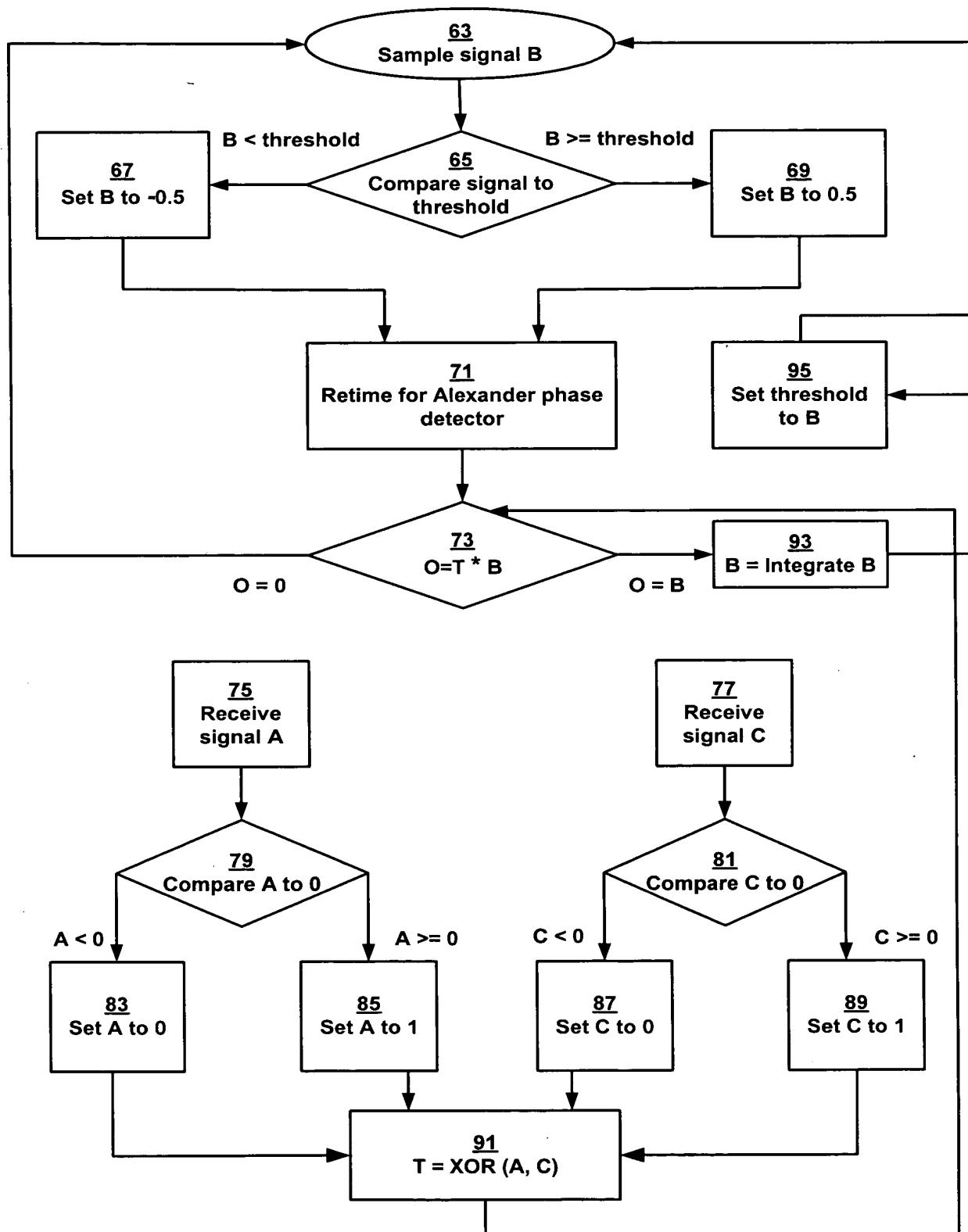


FIG. 6